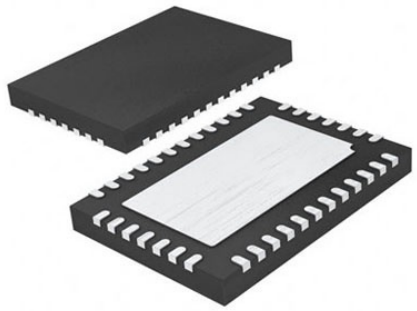
LTC4266IUHF#PBF

Data Sheet

Power Over Ethernet (POE) Controller, 57 V/-5 mA, 1 MHz Interface, 25V UVLO Threshold, QFN-38

Manufacturers	Analog Devices, Inc
Package/Case	QFN-38
Product Type	Interface - Controllers
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4266IUHF#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC4266 is a quad PSE controller designed for use in IEEE 802.3 Type 1 and Type 2 (high power) compliant Power over Ethernet systems. External power MOSFETs enhance system reliability and minimize channel resistance, cutting power dissipation and eliminating the need for heatsinks even at Type 2 power levels. External power components also allow use at very high power levels while remaining otherwise compatible with the IEEE standard. 80V-rated port pins provide robust protection against external faults.

The LTC4266 includes advanced power management features, including current and voltage readback and programmable ICUT and ILIM thresholds. Available C libraries simplify power-management software development; an optional AUTO pin mode provides fully IEEE-compliant standalone operation with no software required. Proprietary 4-point PD detection circuitry minimizes false PD detection while supporting legacy phone operation. Midspan operation is supported with built-in 2-event classification and backoff timing. Host communication is via a 1MHz I2C serial interface.

The LTC4266 is available in a 5mm × 7mm QFN package that significantly reduces board space compared with competing solutions. A legacy-compatible 36-pin SSOP package is also available.

Features

Four Independent PSE Channels

Compliant with IEEE 802.3at Type 1 and 2

0.34Ω Total Channel Resistance

130mW/Port at 600mA

Advanced Power Management

8-Bit Programmable Current Limit (ILIM)

7-Bit Programmable Overload Currents (ICUT)

Fast Shutdown of Preselected Ports

14.5-Bit Port Current/Voltage Monitoring

2-Event Classification

Very High Reliability 4-Point PD Detection

2-Point Forced Voltage

2-Point Forced Current

High Capacitance Legacy Device Detection

LTC4259A-1 and LTC4258 Pin and SW Compatible

1MHz I2C Compatible Serial Control Interface

Midspan Backoff Timer

Supports Proprietary Power Levels Above 25W

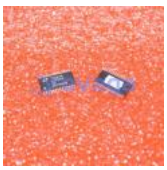
Available in 38-Pin 5mm × 7mm QFN and 36-Pin SSOP Packages

Application

High Power PSE Switches/Routers

High Power PSE Midspans

Related Products



LT3763EFE

Analog Devices, Inc

TSSOP28

LT1038CK

Analog Devices, Inc

TO-3

LTC4417IUF

Analog Devices, Inc

QFN-24

LTC3440EMS

Analog Devices, Inc

MSOP10

[LTC1966CMS8#PBF]

Analog Devices, Inc

MSOP-8P

[LTC2990IMS#PBF]

Analog Devices, Inc

10MSOP

[LTM8045EY#PBF]

Analog Devices, Inc

BGA40

[LT4295IUFD#PBF]

Analog Devices, Inc

28-WFQFN